IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-14 (canceled)

Claim 15 (new): In a system for controlling the transmission power of a base station configured to communicate with a plurality of mobile stations, said base station comprising:

a plurality of power command units configured to receive signals intended for said mobile stations and power command signals sent by said mobile stations;

a plurality of summation units configured to form respective sub-composite signals from input signals having a given priority level transmitted by the power command units;

a plurality of attenuation units configured to attenuate the respective sub-composite signals transmitted by the summation units by applying respective attenuation coefficients; and

a summer configured to form a composite signal to be transmitted to said mobile stations from signals transmitted by the plurality of attenuation units.

Claim 16 (new): A system for controlling the transmission power of a base station according to Claim 15, wherein the attenuation coefficient of each of the plurality of attenuation units is a power P of a respective base attenuation coefficient, the value of P being identical for all said attenuation units.

Claim 17 (new): A system for controlling the transmission power of a base station according to Claim 16, wherein the value of each of the base attenuation coefficients is less than one, the value of the attenuation coefficient of each of the plurality of attenuation units being closer to one for sub-composite signals having high priority level.

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Claim 18 (new): A system for controlling the transmission power of a base station according to Claim 15, wherein an input signal intended for a mobile station is assigned to a sub-composite signal at the beginning of the communication.

Claim 19 (new): A system for controlling the transmission power of a base station according to Claim 15, wherein an input signal intended for a mobile station is assigned to a sub-composite signal, the input signal being modified only at the time of the arrival of at least one event related to said mobile station.

Claim 20 (new): A system for controlling the transmission power of a base station according to Claim 19, wherein the at least one event is a change in type of service, reaching of the saturation level, or entry into soft handover of said mobile station.

Claim 21 (new): A method for controlling the transmission power of a base station configured to communicate with a plurality of mobile stations, comprising:

forming groups of input signals according to predetermined priority criteria assigned to said input signals;

forming respective sub-composite signals from said input signals of each group;

attenuating said sub-composite signals by applying respective attenuation coefficients; and

forming a composite signal from said attenuated sub-composite signals which is transmitted to said mobile stations, the composite signal being always less than a predetermined power.

Claim 22 (new): A method for controlling the transmission power of a base station according to Claim 21, further comprising attenuating said sub-composite signals by selecting a larger value for said attenuation coefficient for the sub-composite signal formed from the input signals having a high priority level.

Claim 23 (new): A method for controlling the transmission power of a base station according to Claim 22, further comprising attenuating said sub-composite signals by selecting the attenuation coefficients having a same power P of respective base attenuation coefficients, the variation of said attenuation coefficients being obtained by variation of said value of the power P.

Claim 24 (new): A method for controlling the transmission power of a base station according to Claim 23, further comprising attenuating said sub-composite signals by selecting the value of P so as not to exceed said predetermined power.

Claim 25 (new): A method for controlling the transmission power of a base station according to Claim 23, further comprising attenuating said sub-composite signals by selecting the value of each of the base attenuation coefficients so that the value of the attenuation coefficient of each of the plurality of attenuation units is less than one, and is closer to one for sub-composite signals having a high priority level.

Claim 26 (new): A method for controlling the transmission power of a base station according to Claim 21, further comprising forming of groups of input signals by assigning an input signal intended for a mobile station to a group for forming a sub-composite signal at the beginning of the communication.

Claim 27 (new): A method for controlling the transmission power of a base station according to Claim 21, further comprising forming of groups of input signals by assigning an input signal intended for a mobile station to a group for forming a sub-composite signal, and modifying the input signal only at the time of the arrival of at least one event related to said mobile station.

Claim 28 (new): A method for controlling the transmission power of a base station according to Claim 27, further comprising modifying the input signal only at the time of a

change in type of service, reaching of the saturation level, or entry into soft handover of said mobile station.

Claim 29 (new): A system for controlling the transmission power of a base station according to Claim 15, wherein the value of attenuation coefficient is large for sub-composite signals having a high priority level.

Claim 30 (new): A system for controlling the transmission power of a base station according to Claim 15, wherein the value of attenuation coefficient is small for sub-composite signals having a low priority level.

Claim 31 (new): A method for controlling the transmission power of a base station according to Claim 24, further comprising attenuating said sub-composite signals by selecting the value of each of the base attenuation coefficients so that the value of attenuation coefficient of each of the plurality of the attenuation units is less than one, and is closer to one for sub-composite signals having a high priority level.

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